

CLAIMS

1. An alpine ski (1) having a sidecut (9) which has a radius smaller than 24 meters, the front (10) and/or rear (18) ends of which have a cavity (11, 15) opening longitudinally at said end, wherein the ratio:

$$C_{av} = \frac{Y_{av}}{F_{av} \cdot L_{av}^3}$$

10 is greater than  $0.3 \cdot 10^{-9}$ , where  $L_{av}$  and  $Y_{av}$ , expressed in millimeters, and  $F_{av}$ , expressed in Newtons, are determined on measurement of lateral deflection of the front part of the ski, during which measurement:

- the ski is arranged on the side with its running surface vertical;
- the ski is held clamped at a front fixed point (20) located at a distance from the front end of the ski of  $3/10$  of the total length  $L_n$  of the ski;
- a force  $F_{av}$  is exerted vertically on the edge of the ski at a point of application (21) located at a distance of 120 millimeters from the front end of the ski, said point of application (21) therefore being located at a distance  $L_{av} = 0.3 \times L_n - 120$ , measured in millimeters, from the front fixed point (20);
- the point of application undergoes a vertical displacement  $Y_{av}$ .

2. An alpine ski (1), having a sidecut (9) which has a radius smaller than 24 meters, the front (10) and/or rear (18) ends of which have a cavity (11, 15) opening longitudinally at said end, wherein the ratio:

$$C_{ar} = \frac{Y_{ar}}{F_{ar} \cdot L_{ar}^3}$$

is greater than  $0.3 \cdot 10^{-9}$ , where  $L_{ar}$  and  $Y_{ar}$ , expressed in millimeters, and  $F_{ar}$ , expressed in Newtons, are determined on measurement of lateral deflection of the rear part of the ski, during which measurement:

- the ski is arranged on the side with its running surface vertical;
- the ski is held clamped at a rear fixed point (24) located at  $3/10$  of the total length  $L_n$  of the ski from the rear end (8) of the ski;
- a force  $F_{ar}$  is exerted vertically on the edge of the ski at a point of application (25) located at a distance of 50 millimeters from the rear end (8) of the ski, said point of application (25) being located at a distance  $L_{ar} = 0.3 \times L_n - 50$ , measured in millimeters, from the rear fixed point (24);
- the point of application (25) undergoes a vertical displacement  $Y_{ar}$ .

3. The alpine ski as claimed in one of claims 1 or 2, which consists of two longitudinal elements (2, 3) side by side and joined at the underfoot zone.

4. The alpine ski as claimed in claim 3, wherein the elements (2, 3) are joined by a platform (5) for mounting the binding.

5. The alpine ski as claimed in one of claims 1 or 2, wherein the cavity (11, 15) receives an elastic filling material.

6. The alpine ski as claimed in one of claims 1 or 2, wherein the ratio of the displacement in lateral deflection ( $Y_{av}$ ,  $Y_{ar}$ ) divided by the total length  $L_n$  of the ski is greater than 0.0015 when the force  $F$  exerted is 100 Newtons.